Title (en)

WIRELESS POWER OVERVOLTAGE PROTECTION CIRCUIT WITH REDUCED POWER DISSIPATION

Title (de)

DRAHTLOSER ÜBERSPANNUNGSSCHUTZSCHALTUNG MIT VERMINDERTER VERLUSTLEISTUNG

Title (fr)

CIRCUIT DE PROTECTION CONTRE UNE SURTENSION DE COURANT SANS FIL COMPRENANT DISSIPATION DE COURANT RÉDUITE

Publication

EP 2891226 A2 20150708 (EN)

Application

EP 13759611 A 20130822

Priority

- US 201261694712 P 20120829
- US 201313797674 A 20130312
- US 2013056241 W 20130822

Abstract (en)

[origin: WO2014035799A2] Systems, methods, and apparatus for overvoltage protection in a wireless power receiver are disclosed. One aspect of the disclosure is a wireless power receiver apparatus. The apparatus includes an antenna circuit configured to wirelessly receive power, from a transmitter, at a level sufficient to power or charge a load, wherein the antenna circuit is electrically connected to an overvoltage protection circuit that is electrically connected between the antenna circuit and the load. The apparatus also includes a matching circuit electrically connected to the antenna circuit and a switching element electrically connected to the matching circuit. At least one of the matching circuit or the switching element is configured to control an amount of the received power flowing into the overvoltage protection circuit.

IPC 8 full level

H02J 7/02 (2006.01); **H02H 3/20** (2006.01); **H02J 5/00** (2006.01)

CPC (source: CN EP US)

H02H 3/20 (2013.01 - US); **H02H 9/04** (2013.01 - CN EP US); **H02J 5/005** (2023.08 - CN); **H02J 7/0029** (2013.01 - CN); **H02J 7/00308** (2020.01 - EP US); **H02J 7/025** (2023.08 - CN); **H02J 50/27** (2016.02 - EP US)

Citation (search report)

See references of WO 2014035799A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014035799 A2 20140306; **WO 2014035799 A3 20140904**; CN 104604083 A 20150506; CN 104604083 B 20180914; EP 2891226 A2 20150708; US 2014063666 A1 20140306; US 9130369 B2 20150908

DOCDB simple family (application)

US 2013056241 W 20130822; CN 201380045714 A 20130822; EP 13759611 A 20130822; US 201313797674 A 20130312